

PA-IDC

Pre Ed. x

QUERY CONTROL FORM		RTIS USE ONLY	
Application No. <u>09758775</u>	Prepared by <u>BMG</u>	Tracking Number <u>05977478</u>	
Examiner-GAU <u>0975 -</u>	Date <u>7-21-04</u>	Week Date <u>7/12/04</u>	
<u>AKK speedi - 2871</u>		No. of queries <u>1 CA</u>	<u>1FUL74</u>

### JACKET

a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other

### SPECIFICATION

- a. Page Missing
- b. Text Continuity
- c. Holes through Data
- d. Other Missing Text
- e. Illegible Text
- f. Duplicate Text
- g. Brief Description
- h. Sequence Listing
- i. Appendix
- j. Amendments
- k. Other

### MESSAGE

*Improper Dependency:*  
*only #*  
 ① Claims 1, 2, 4, 6, 7 depend on claim 10.  
 ② Newly numbered claim 8 depends on claim 11.  
 ③ Newly numbered claim 9 depends on claim 12.  
 (see attached pages) please advise/correct claim dependency.

*Please Resolve*

*Thank You*

### CLAIMS

- a. Claim(s) Missing
- b. Improper Dependency
- c. Duplicate Numbers
- d. Incorrect Numbering
- e. Index Disagrees
- f. Punctuation
- g. Amendments
- h. Bracketing
- i. Missing Text
- j. Duplicate Text
- k. Other

initials CA

### RESPONSE

initials

09/758,775

PATENT

## IN THE CLAIMS:

- 1-7. (Cancelled).
- 8-21. (Withdrawn from consideration in this application).
22. (Canceled).
- 1  
23. (Currently Amended) The light valve of claim 22 <sup>10</sup> ~~42~~ wherein said liquid crystal cell is an LCoS cell.
- 2  
24. (Currently Amended) The light valve of claim 22 <sup>10</sup> ~~42~~ wherein light incident to the light valve is between ~~400~~ 10° and ~~200~~ 20° off-axis.
- 3  
25. (Currently Amended) The light valve of claim 23 <sup>1</sup> ~~3~~ wherein light incident to the light valve is ~~450~~ 15° off-axis.
- 4  
26. (Currently Amended) The light valve of claim 22 <sup>10</sup> ~~42~~ wherein said liquid crystal cell has a twist angle ranging from ~~400~~ 40° to ~~650~~ 65°.
- 5  
27. (Original) The light valve of claim 26 <sup>4</sup> wherein said liquid crystal cell is in twisted nematic mode.
- 6  
28. (Currently Amended) The light valve of claim 22 <sup>10</sup> ~~42~~ wherein the horizontal axis of said polarizer and the horizontal axis of said analyzer are ~~900~~ 90° apart.
29. (Canceled).
- 7  
30. (Currently Amended) The light valve of claim 29 <sup>10</sup> ~~42~~ wherein said retarder has a retardation value centered at 530 nanometers and a retardation angle centered at ~~890~~ 89° in a red band of light.

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PATENT

31. (Canceled).

8  
32. (Currently Amended) The light valve of claim ~~31~~ 43 wherein said retarder has a retardation value centered at 460 nanometers and a retardation angle centered at  $89^\circ$  in a green band of light.

33. (Canceled).

9  
34. (Currently Amended) The light valve of claim ~~33~~ 44 wherein said first retarder has a retardation value centered at 370 nanometers and a retardation angle centered at ~~890~~  $89^\circ$  in a blue band of light.

35. (Withdrawn from consideration in this application).

36-41. (Canceled).

10  
42. (New) A light valve for use in high contrast reflective microdisplays, comprising:

- a twisted nematic mode reflective liquid crystal cell;
- a color filter positioned to accept non-polarized light incident to the light valve;
- a linear polarizer positioned between said color filter and said liquid crystal cell to impart a polarization to the incident light;
- an analyzer positioned in the path of the light reflected by said liquid crystal cell; and
- a retarder positioned between said liquid crystal cell and said analyzer in the path of the light reflected by said liquid crystal cell, the retarder having a retardation value ranging from 430 nanometers to 630 nanometers to reduce ellipticity of the reflected light and a retardation angle ranging from  $87.6^\circ$  to  $90.2^\circ$  in a red band of light;